

Amendments to the Claims

Claims 1-15. (Cancelled)

Claim 16. (New) A system for producing and coating an object, comprising a manufacturing machine and an object treatment device wherein the object treatment device comprises a painting station with means for applying a coating to a surface of the object, at least an other station for treating the object, and a conveyor for moving the object between the stations, wherein the object treatment device is located within an enclosure and includes means for creating a controlled atmosphere within the enclosure, wherein the manufacturing machine is located outside the enclosure, and further wherein the object treatment device includes means for applying 0.001 to 0.005 gram per square cm of a lacquer to the surface of the object at a lacquer pressure below 1 bar.

Claim 17. (New) The system according to claim 16, wherein the manufacturing machine is an injection molding machine, an extrusion molding machine, a rolling mill, or a metal pouring machine.

Claim 18. (New) The system according to claim 16, wherein the conveyor comprises a conveyor belt or a turnable tool.

Claim 19. (New) The system according to claim 16, wherein the means for applying a coating to a surface of the object comprises a movable spray head.

Claim 20. (New) The system according to claim 16, wherein the object treating device further comprises at least one of a UV treatment station with a UV radiation source, a milling station, a printing station and an assembling station.

Claim 21. (New) The system according to claim 16, wherein the means for applying a coating to a surface of the object comprises a spray gun, a tampo-printer, or a transducer.

Claim 22. (New) A method for producing and coating an object, comprising the steps of:

producing the object in a manufacturing machine;

moving the object to an object treatment device, which comprises a painting station and at least an other station for treating the object;

coating a surface of the object with 0.001 to 0.005 gram per square cm of a lacquer in the painting station; and

moving the object from the painting station to the other station;

wherein the object treatment device is located within an enclosure, wherein the object is coated and treated in a controlled atmosphere, wherein the producing step is performed outside the enclosure, and wherein a lacquer pressure is below 1 bar.

Claim 23. (New) The method according to claim 22, wherein the object is produced by injection molding, extrusion molding, rolling mill, or by metal pouring.

Claim 24. (New) The method according to claim 22, wherein the coated object is UV treated in an inert gas atmosphere.

Claim 25. (New) The method according to claim 22, wherein the object is coated and treated in an atmosphere with a total dust content of less than 1000 particles above 0.5 micron per cubic foot.

Claim 26. (New) The method according to claim 22, wherein at least one of the steps of coating and treating the object is performed in an atmosphere having a low and controlled oxygen content of less than 500 ppm.

Claim 27. (New) The method according to claim 22, wherein the object is provided with a mask prior to the coating step.

Claim 28. (New) The method according to claim 22, wherein in the coating step lacquer or paint is atomized with an inert gas and sprayed to the object.

Claim 29. (New) The method according to claim 22, wherein the object is moved from the painting station to the other station by a conveyor comprising a conveyor belt or a turnable tool.

Claim 30. (New) The method according to claim 22, wherein the object has a different geometrical shape from an other object moved from the painting station to the other station.

Claim 31. (New) A system for manufacturing and coating an object, comprising:

a manufacturing machine; and

an object treatment device, wherein the object treatment device includes a painting station, a second station, and a conveyor which moves the object between the painting station and the second station;

wherein the object treatment device is disposed within an atmosphere-controlled enclosure and wherein the manufacturing machine is located outside the atmosphere-controlled enclosure;

and further wherein the painting station applies 0.001 to 0.005 gram per square cm of a lacquer to a surface of the object at a lacquer pressure below 1 bar.

Claim 32. (New) The system according to Claim 31, wherein the second station is a UV treatment station.

Claim 33. (New) The system according to Claim 31, wherein the atmosphere-controlled enclosure includes a first enclosure with a first controlled atmosphere and a second enclosure with a second controlled atmosphere, and wherein the painting station is disposed within the first enclosure and wherein the second station is disposed within the second enclosure.

Claim 34. (New) A method for manufacturing and coating an object, comprising the steps of:

manufacturing the object in a manufacturing machine;

moving the object to an object treatment device, wherein the object treatment device includes a painting station and a treating station;
coating a surface of the object with 0.001 to 0.005 gram per square cm of a lacquer in the painting station at a lacquer pressure below 1 bar; and
moving the object from the painting station to the treating station;
wherein the object treatment device is disposed within an atmosphere-controlled enclosure and the manufacturing machine is located outside the atmosphere-controlled enclosure.

Claim 35. (New) The method according to claim 34, further comprising the step of UV curing the object in the treating station.